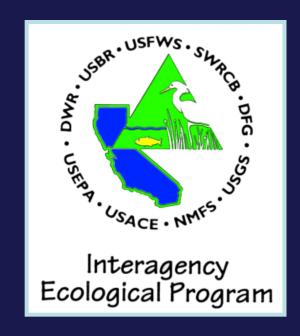
Interagency Ecological Program

Cooperative Ecological Investigations in the San Francisco Estuary since 1970

Anke Mueller-Solger Lead Scientist

Delta Conservancy Board February 23, 2011



Four decades ago...

Testimony at 1969-70 SWRCB Water Rights Hearings:

- "Fish and wildlife problems" in the estuary
- SWP & CVP may contribute

Need studies to

- Understand fish and wildlife resource requirements
- Find ways to minimize SWP & CVP impacts

1970 IEP MOA

USBR

IN WITNESS WHEREOF, the parties hereto have executed this Memorandum

of Agreement on July 13 , 1970.

U. S. BUREAU OF RECLAMATION CALIF. DEPARTMENT OF WATER RESOURCES

By Department of Water Resources

By Calif. Department of Fish & Game

Of Agreement of Principles

By Calif. Department of Fish & Game

AND WILDLIFE, Region 1

I have been a sound advanced it assemble from been applied to the parties of Finesses.

I have been a sound advanced it assemble from been applied to the parties of Finesses.

USFWS

DFG

1970: Interagency Ecological Studies
Program (IESP)

1970-1982: Focused studies to allow "full" water project development (with Peripheral Canal etc)

1982-90s: Monitoring and studies to meet regulatory requirements & evaluate effects of project operations, fish facilities, barriers



1993: Program review – reorganization, IEP

2005+: Pelagic Organism Decline (POD) study focus

Long-term Interagency Science Cooperation, Science Informing Policy Solutions

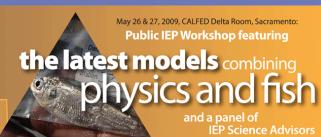
... to 2011: The IEP at 41



Interagency Ecological Program

COOPERATIVE ECOLOGICAL INVESTIGATIONS SINCE 1970

- Science Consortium with 6 Federal & 3 State Agencies, + other Agency & Academic Partners
- ~ \$30 M annually for "Core," "Directed," & "Coordinated" Elements
- 2010 IEP Workplan:126 Program Elements



IEP Science Advisors

Click here to read more...

Modeling

Dr. IEP Science ...
Does Interagency
Science for Policy

Synthesis Review

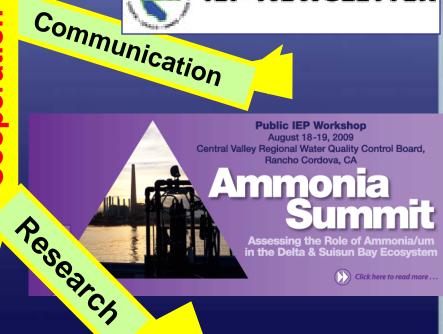
Analysis

Interagency Ecological Program
2010 Pelagic Organism Decline Work Plan
and
Synthesis of Results

IEP NEWSLETTER

Long-Term Sooperation

Monitoring





2011 IEP WORKSHOP: March 30, 2011, Lake Natoma Inn, Folsom

http://www.water.ca.gov/iep/



Interagency Ecological Program

Cooperative Ecological Investigations in the San Francisco Estuary since 1970

IEP Home

ACTIVITIES

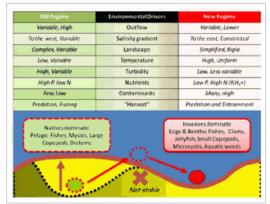
- Monitoring
- » Research.
- Pelagic Organism Decline (POD) Investigations
- Program Reviews
- Calendar
- Workshops and Events
- Archive

PRODUCTS

- Data and Metadata
- » IEP Newsletter
- Technical Reports
- Journal Publications
- → Maps

							۰		
**		i	١	•			4		

2010 PELAGIC ORGANISM DECLINE WORK PLAN AND SYNTHESIS OF RESULTS.



The IEP has released a progress report entitled "2010 Pelagic Organism Decline (POD) Work Plan and Synthesis of Results." The POD Management Team is interested in collecting comments that identify information gaps or comments that can inform the final report planned for 2012/13. Send comments to Kelly Souza at ksouza@dfg.ca.gov. While we may not directly respond to your feedback, we may post any comments received on the IEP website.

(Monday, December 6, 2010)

▶ Work Plan and Synthesis of Results

Please click here to take the IEP Data Users Survey

MONITORING



The annual "Status and Trends" issue of the IEP

RESEARCH

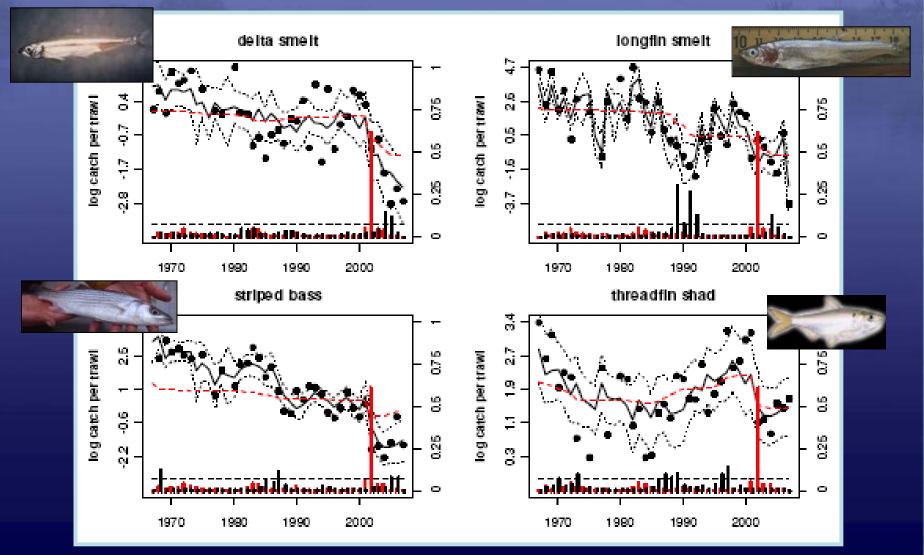


Old school vs new school: status of threadfin

WORKSHOPS AND EVENTS

Dreissenid Mussel Summit October 21-22, 2010 Lions Gate Hotel, Sacramento

Long-term IEP Monitoring Shows Fish Declines POD Change Point in 2002



POD Workplans & Synthesis:

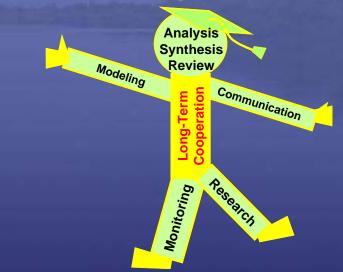
Conceptual Models

- Link Drivers/Stressors and Effects
- Tell POD Story from Different Perspectives
 - ➤ Multiple Drivers/Stressors in Combination
 - ➤ Species-Specific Effects
 - > Ecological Regime Shift

Future of the IEP – the next 40 years? Growing Interagency Science Cooperation

to meet

- Continuing Science Needs
- New Science Needs, e.g.
 - Ecosystem Restoration -Delta Conservancy
 - Delta Plan -Delta Stewardship Council
 - o Bay-Delta Conservation Plan
 - Water Quality Initiatives –
 EPA and Water Boards
 - Science Integration, Synthesis and Communication



Dr. IEP Science ...
Does Interagency
Science for Policy



Additional Information

Interagency Ecological Program: http://www.water.ca.gov/iep

Anke Mueller-Solger- amueller@deltacouncil.ca.gov

Kelly Souza – ksouza@dfg.ca.gov

Bruce Herbold - Herbold.Bruce@epamail.epa.gov

Thanks!